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From the INTERNATIONAL SEARCHING AUTHORITY PCT WRITTEN OPINION OF THE see form PCT/ISA/220 INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43*bis.*1) Date of mailing (day/month/year) see form PCT/ISA/210 (second sheet) Applicant's or agent's file reference FOR FURTHER ACTION TH2444-PCT see form PCT/ISA/220 See paragraph 2 below International application No. International filing date (day/month/year) Priority date (day/month/year) PCT/US2004/003010 03.02.2004 05.02.2003 International Patent Classification (IPC) or both national classification and IPC C07C15/107, C07C5/27, C07C2/10 Applicant SHELL OIL COMPANY This opinion contains indications relating to the following items: 1. ☑ Box No. I Basis of the opinion ☑ Box No. II **Priority** ☐ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability ☐ Box No. IV Lack of unity of invention Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement ☐ Box No. VI Certain documents cited ☐ Box No. VII Certain defects in the international application ☐ Box No. VIII Certain observations on the international application 2. **FURTHER ACTION** If a demand for international preliminary examination is made, this opinion will usually be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA"). However, this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notifed the International Bureau under Rule 66.1 bis(b) that written opinions of this International Searching Authority will not be so considered. If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of three months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later. For further options, see Form PCT/ISA/220. For further details, see notes to Form PCT/ISA/220. Name and mailing address of the ISA: **Authorized Officer**



European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d Fax: +49 89 2399 - 4465

Butkowskyj-Walkiw, T

Telephone No. +49 89 2399-8594



WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/US2004/003010

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	Box	No	o. I Basis of the opinion					
1.	With regard to the language, this opinion has been established on the basis of the international application in the language in which it was field, unless otherwise indicated under this item.							
		lan	is opinion has been established on the basis of a translation from the original language into the following guage , which is the language of a translation furnished for the purposes of international search older Rules 12.3 and 23.1(b)).					
2.	With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:							
	a. ty	of material:						
		כ	a sequence listing					
		כ	table(s) related to the sequence listing					
b. format of material:								
]	in written format					
	Ε	3	in computer readable form					
c. time of filing/furnishing:								
	Ε)	contained in the international application as filed.					
		ב	filed together with the international application in computer readable form.					
		כ	furnished subsequently to this Authority for the purposes of search.					
3.		has	addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto been filed or furnished, the required statements that the information in the subsequent or additional pies is identical to that in the application as filed or does not go beyond the application as filed, as propriate, were furnished.					
4	Additional comments:							

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/US2004/003010

_	Box	No. II	Priority							
1.	\boxtimes	The following document has not been furnished:								
			copy of the earlier application whose priority has been claimed (Rule 43bis.1 and 66.7(a)).							
			translation of the e	arlier app	lication wh	ose priority has been claimed (Rule 43bis.1 and 66.7(b)).				
		Consequently it has not been possible to consider the validity of the priority claim. This opinion has nevertheless been established on the assumption that the relevant date is the claimed priority date.								
2.		This opinion has been established as if no priority had been claimed due to the fact that the priority claim has been found invalid (Rules 43 <i>bis</i> .1 and 64.1). Thus for the purposes of this opinion, the international filing date indicated above is considered to be the relevant date.								
3.	Additional observations, if necessary:									
	Box No. V Reasoned statement under Rule 43 <i>bis</i> .1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement									
1.	State	ement								
	Nove	elty (N)		Yes: No:	Claims Claims	7,16 1-6,8-15,17,24				
	Inve	ntive ste	ep (IS)	Yes: No:	Claims Claims	1-24				
	Indu	strial ap	oplicability (IA)	Yes: No:	Claims Claims	1-24				
2.	Citat	tions an	d explanations							
	See	senarai	te sheet							

Re Item V.

The following documents are referred to in this communication:

D1: US 3 442 965 A (OLDHAM WILFRED JOHN) 6 May 1969 (1969-05-06)

D2: US 3 238 249 A (MIRVISS STANLEY B ET AL) 1 March 1966 (1966-03-01)

D3: US 4 959 491 A (THRELKEL RICHARD S) 25 September 1990 (1990-09-

25)

In the light of D1 (col. 1, line 26 - col. 6, line 8; claims 1,2,17-19) the present claims 1-6,8-15 and 17-24 cannot be considered as being novel (Art. 33(2) PCT). Furthermore, in the light of D1 in combination with D2 (col. 1, line 10 - col.5, line 10; claims 1-6) and D3 (col. 4, line 5 - col. 10, line 4; claims 1-31; example 5) claims 1-24 do not involve an inventive step (Art. 33(3) PCT) as the object of the present application, namely to provide a method of preparing branched alkyl aromatic hydrocarbons and the present solution has already been suggested by said documents.

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